Continuous Casting Technology for CuMg Trolley Wire Rod

- Profile Drawn Contact Wires
- Stranded Messenger & Dropper Wires
- Special High Tensile Conductor Wires

Proprietary Continuous Casting Technology

- Graphite Resistance Heated Furnace Design
- Graphite Twin Chamber Crucible
- Temperature Stability
- High Integrity Metallurgical Structure of As-Cast Rod
- Inert Gas Protection
- Integrated Melting, Alloying & Casting
- Full Automatic Monitoring of All Key Production Parameters
- Close Tolerance of Chemical Composition
- Consistent Quality
- Greater Output than Competing Systems
- Safe Operation
Model RS 3000/5/CuMg Machine

- Automatic Cathode Feed
- 360 kVA
- Five Strands
- 19-30mm Diameter Rod Production
- Up to 500 Kg per Hour Output
- Complete System

- Compact Arrangement 30m x 3m x 7.5m high
- Floor Mounted, No Special Foundations
- Up to 5 Tonne Coils
- Full Technology Transfer and Customer Training
- Life-long Technical Support for Users
- Proven Technology over Thirty Years (CuMg since 1997)

Materials used for Trolley Wire

<table>
<thead>
<tr>
<th>Material</th>
<th>Resistivity (Ohmmeter max. 10.08)</th>
<th>Breaking Load 150mm² (kN)</th>
<th>Tensile Strength 150mm² (minimum N/mm²)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Copper-Magnesium Alloy</td>
<td>CuMg 0.2</td>
<td>2.240</td>
<td>61.1</td>
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<tr>
<td></td>
<td>CuMg 0.5</td>
<td>2.778</td>
<td>68.4</td>
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<tr>
<td>Copper-Tin Alloy</td>
<td>CuSn 0.2</td>
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<td>61.1</td>
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<tr>
<td>Copper-Cadmium Alloy</td>
<td>CuCd 1.0</td>
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<td>64.7</td>
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<tr>
<td>Copper-Silver Alloy</td>
<td>CuAg 0.1</td>
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<td>50.9</td>
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<tr>
<td>High Conductivity Copper</td>
<td>Cu-ETP</td>
<td>1.777</td>
<td>45.1</td>
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European Specification EN 50149:2001